

Passage Plan



Section 1: General information

Vessel's Name	HAKO
Voyage Number	02
Vessel's Condition	Loaded
Target Speed	12.5
Target RPM	70
Total Steaming Time	1D 17H 30M
Total distance to go	519
Max height above Keel (in Meters)	47.4
Max Summer Draft	13.318

Departure Draft (mtrs)	
Fore	11.83
Aft	11.83
Max Air Draft	35.57
Density	1.020
Arrival Draft (mtrs)	
Fore	11.82
Aft	11.82
Max Air Draft	35.58
Density	1.025

Consumptions / Day in MT	
HFO	25
MDO/MGO	0
L.O.- ME CYL Ltrs/day	115
Fresh Water Data	
FW Consumption/ day in MT	10
FW Production / day in MT	20
Net Gain / Loss / day in MT	10

Departure Port Information	
Name of the Port	PRINCE RUPERT
ETD	17 JULY / 0800 LT
Time Zone	+7
Estimated ROB's on Departure	
HFO	580
MDO/MGO	32.8
FW	140
MECYL	10850

Arrival Port Information	
Name of the Port	VANCOUVER
ETA	18 JULY / 0130 LT
Time Zone	+7
Estimated ROB's on Arrival	
HFO	545
MDO/MGO	32.8
FW	140
MECYL	10550

Block Coefficient	0.86
Clock to be advanced/Retarded during voyage	
Clocks	Not Applicable
Duration	Not Applicable
If the vessel is Crossing International Date line	
Date of Crossing	Not Applicable
Day Advance/Retard	Not Applicable

Section 2B: Voyage Appraisal on ECDIS

A. CHECKLIST FOR VOYAGE PLANNING ON ECDIS

- a) Does vessel have Largest Scale ENC's for all Sea Areas of the proposed voyage?
(All ENC's to comply with IHO chart data transfer standard 5-57)
- b) If answer to (a) is "No", does vessel have the required Paper charts?
(If answer is "No", carry out Risk Assessment to identify hazards and control measures)
- c) Check that ENC permits are valid for the duration of voyage.
(Contracted ENC distributor to be notified in case the validity needs to be extended)
- d) Check that latest corrections have been applied to ENC's.
(From update CD issued by ENC distributor or updates received on email)
- e) Check that controlling operational data is updated in ECDIS.
(Max Draft, Air-draft, Turning Data, Min UKC, Look Ahead Dist, etc.)
- f) Check that data input from Bridge equipment is displayed on ECDIS.
(Input from GPS, Gyro & Log is mandatory. In addition, there may be interface with other Bridge equipment like AIS, Radar, Auto-pilot, VDR, NAVTEX, etc.)
- g) Check that geodetic datum on GPS is set to WGS-84.
- h) Check that all warning alarms on ECDIS are activated & functional.
(Includes inbuilt system fault/failure alarms & user defined principal alarms)
- i) Verify Principal alarm settings. A list of alarms to be posted near ECDIS.
(Safety contours, safety depth, area with special conditions, X-track alarm, safety zone, CPA/TCPA, etc.)
- j) Check that latest T&P corrections are incorporated on ENC's *(refer flow chart)*
(AIO: Admiralty Information Overlay, MIO: Mariner's Information Overlay)

Yes ☒ No ☐

Yes ☐ No ☐ N/A ☒

☒

☒ Last Correction no. with Date: 28/2014

☒ 12/07/2014

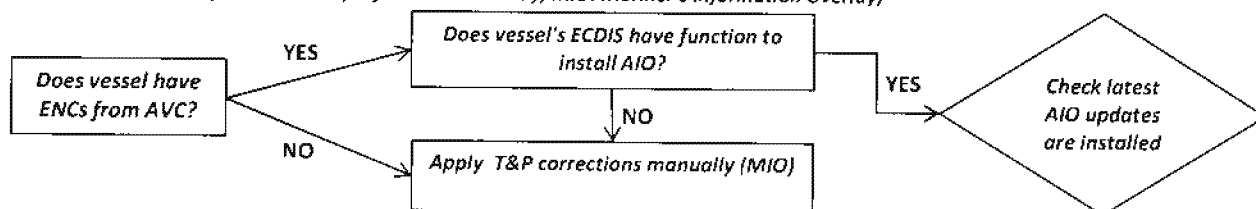
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☒ Last Correction no. with Date:



B. BELOW INFORMATION TO BE MARKED ON ENC's (same as normally done on paper charts)

- a) Locations for: SPEED REDUCTION / UNLASHING ANCHORS / ECHO SOUNDER "ON"
- b) Areas where 2 Steering motors to be switched "on" *(if applicable)*
- c) Landfall targets & Lights / Prominent Navigation & Radar conspicuous marks
- d) Abort Point *(refer BPM Sec-3.3)*
- e) Areas of significant Tides & Currents / Minimum UKC / Possibility of banking effect
- f) Parallel Indexing while in pilotage areas and during coastal navigation if applicable
- g) Clearing Lines & Bearings / Heading Marks / Leading Lines
- h) No-go Areas *(Mainly for dangers to navigation close to the charted track)*
- i) Wheel-over Position
- j) Contingency Anchorage
- k) VTS / Port Control / Pilot Station Reporting Points
- l) Cautionary Areas / Areas where heavy traffic or crossing traffic expected
- m) Boundary of Special Areas *(eg. SECA, ECA, Right Whale Area, Great Barrier Reef, etc.)*
- n) Nav warnings transmitted by satellite, Navtex, coast stations on VHF, etc.

[illegible]

"CARRY OUT A THOROUGH APPRAISAL FOR EACH LEG OF THE VOYAGE BY ROUTE CHECK SIMULATION"

Section 3: Publications

M.V / M.T.

HAKO

Voyage No:

02

Voyage Charts corrected upto:

22/2014 NTM Number

Applicable Admiralty List of Radio Signals			
List of Radio Signals	Latest Edition	Edition on board	Corrected to NTM No.
NP286(5) Volume 6 - Part 5, North America, Canada and Greenland	2013/14	2013/14	

Applicable Admiralty List of Lights and fog signals			
List of Lights	Latest Edition	Edition on board	Corrected to NTM No.
NP80 Volume G: Western Side of South Atlantic and East Pacific Ocean; from Cabo Orange to Point Barrow, and Hawaiian Islands	2013/14	2013/14	

Details of latest Radio/ Electronic Broadcasts (Add any other information in the blank spaces provided)		
Details	Latest warning available	Applied on charts
Navareas/ Hydrolants/ Hydropac warnings	YES	YES
Vessel's present Navarea	NAV. AREA XII	YES
Navareas to be transited		
Navtex /local area warnings?	YES	YES
Navtex Areas selected	ALL	YES
Weather Facsimile broadcasts (List the Chart station)	POINT REYES	YES
Ocean routing services	AWT	YES
Radio Weather Broadcasts?	COMOX	YES
Inmarsat Broadcasts (EGC warnings)	YES	YES
Special area warnings	YES	YES

Applicable List of Sailing Directions			
Sailing Directions	Latest Edition	Edition on board	Corrected to NTM No.
NP25 British Columbia Pilot Vol 1	15th ED.	15th ED.	
NP26 British Columbia Pilot Vol 2	10th ED.	10th ED.	

Applicable Admiralty Tide tables			
Tide tables	Latest Edition	Edition on board	Corrected to NTM No.
NP204 Volume 4, Pacific Ocean (including Tidal Stream Tables)	2014	2014	

Applicable Miscellaneous publications (Add any other publication in use in the blank spaces provided)			
Publication	Latest Edition	Edition on board	Remarks
NP 131 Chart Catalogue	2014	2014	
NP 136 Ocean Passages of the world	5th ED.	5th ED.	
NP 100 Mariners hand book	9th ED.	9th ED.	
Guide to port entry	2013/14	2013/14	
Admiralty Co-Tidal Atlas			
Tidal Stream Atlas			
Load line Chart	Edition 2	Edition 2	
Routing charts & Guidance for Laden tanker routes off Dutch coast and South Africa	DEC. 2013	DEC. 2013	
NP 735 IALA Buoyage System	Arrival port		Dep. Port
	Region B		Region B

Section 4: Tides and current

M.V./M.T.:

HAKO

Voyage No:

02

Departure Port

1) Departure Date

17-Jul-14

2) Departure Time

0800 LT

3) **Tides**

TIME

HEIGHT

i. High water

0449 LT

6.1

ii. Low water

1101 LT

1.0

4) **Tidal Stream**

i. Rate

ii. Direction

Arrival Port

1) Arrival Date

18-Jul-14

2) Arrival Time

0800 LT

3) **Tides**

TIME

HEIGHT

i. High water

1033 LT

3.5

ii. Low water

0443 LT

1.8

4) **Tidal Stream**

i. Rate

ii. Direction

During The Passage(Straits, channels, Ocean Currents etc)

1) Position

2) Arrival Date

3) Arrival Time

4) **Tides**

TIME

HEIGHT

i. High water

ii. Low water

5) **Tidal Stream**

i. Rate

ii. Direction

6) **Currents**

i. Name

ii. Rate

iii. Direction

Section 5: Weather conditions

M.V./M.T.: HAKO

Voyage No: 02

Navtex Station
PRINCE RUPERT
TOFINO

Weather Fax Station
POINT REYES
KODIAK

- 1) Are Weather Routing Services being provided ?

Yes

Which organization is providing these services ?

AWT

Is the routine weather routing format/report available?

YES

- 2) What are the expected weather conditions on during the passage ?

SLIGHT SEA

- 3) What is the max height of swell expected at Departure/ Arrival port & during Sea passage ?

1 - 2 METERS

- 4) What is the max wind speed expected at Departure/ Arrival port & during Sea passage ?

10 - 30 KTS.

- 5) What is the max / minimum temperature likely to encounter during voyage ?

18 - 23

- 6) Is the vessel expected to experience areas with restricted visibility during the passage, if yes, please list the way point no's where restricted visibility may be encountered.

NO

- 7) Is the vessel expected to encounter ice during passage, if yes please advise precautions taken ?

NO

- 8) Is the vessel expected to encounter any Tropical Cyclones / Typhoons / Tropical Depression / Hurricanes during voyage ?

NO

- 9) What is the GM of the vessel on Departure, Arrival & expected minimum GM during Sea passage ?

Departure

3.15

Arrival

3.15

Passage

3.15

Section 6: Reporting Details

M.V./M.T.: HAKO

Voyage No:

02

A) ENOA / D

1. ENOA/D to send (For US Calling vessels only)

If Yes, Expected Date of submission ENOA/D to NVMC/ SANS

Date

NA

2. Expected Date of submission ENOA/D to OFFICE REVIEW

Date

Reminder:

1) Vessel to send ENOA for office review prior sending same to NVMC and ENOA has to be forwarded to NVMC at least 96 hrs prior entering US Waters (Voyage type = Foreign to US).

2) Vessels calling US Waters are required to send completed passage plan copies duly signed by the Master and other Navigating Officers to Office on email ID fleet-ccmnav@fleetship.com prior entering US Waters.

3) Vessels calling US to US port (different COTP zone) are required to send 'E-NOA with voyage type US to US'.

4) Vessels departing US ports are required to send completed passage plan copies duly signed by the Master and other Navigating Officers to Office on email ID fleet-ccmnav@fleetship.com prior vessel's departure.

5) Vessel to send ENOD for office review prior sending same to NVMC and ENOD has to be forwarded to NVMC atleast 6 hours prior departing the berth (Voyage type = US to Foreign).

Remarks (If any)

B) PILOTS

1. How many days pre arrival notice to be given to Pilot station at arrival port.

Days

2, 1

Hrs

12, 4

2. Means of Communication with pilot station (Email, VHF etc)

VHF Channels 16, 17

Email address

colley@colleywest.bc.ca

Any other means VIA AGENT

Remarks (If any)

CAN CONTACT PILOT VIA TEL. 12503633878 / FAX: 12503633293 / TELEX: 210497236PPAPILOTS VIC

C) VTS (Vessel traffic system)/ Ship's position reports during the voyage :

VTS Sector	Reporting Position	VTS Callsign	VHF Channel	Remarks
SECTOR 2	Pilotage area	Prince Rupert	16, 71	
		Traffic		
SECTOR 1	Rose Spit and Seal Rocks	Prince Rupert	16, 11	
		Traffic		
	Triangle Island	Tofino Traffic	16, 74	
	Along 124-40 W	Seattle Traffic	16, 05A	
SECTOR 1	Race Rocks	Victoria Traffic	16, 11	
SECTOR 3	Lona Lt.	Vancouver	16, 12	
		Traffic		

Is Vessel participating in any SRS Ship reporting system (eg AMVER/ AUSREP/ JASREP etc)

No

Remarks (If any)

VESSEL WILL SAIL ONLY ALONG BRITISH COLOMBIA COAST FROM PRINCE RUPERT TO VANCOUVER.

D) CHARTERERS/ Agents

1. Is any notice required to be given to Charterers/agents prior departure / Arrival and by what means

Yes

2. Means of Communication with Charterers/agents

Email address shipops@manshipping.co.uk

Email address

Email address

Email address

Any other means

3. Interval of notices to Charterers/agents, Please state days/ hrs

Days Daily at Noon

Hrs

Remarks (If any)



Section 7: BRIDGE MANAGEMENT TEAM

M.V./M.T.: HAKO Voyage No: 02

Note: Cadets and any other ratings without appropriate certification should not be part of the bridge team.

1. AT SEA

RESPONSIBILITY	0000 - 0400 & 1200 - 1600	0400-0800 & 1600- 2000	0800 – 1200 & 2000 - 2400
OOW	SECOND OFFICER	CHIEF OFFICER	THIRD OFFICER
Lookout	AB-1 ERWIN	AB-2 TAMMY	AB-3 DANILO

2. AT SEA, IN RESTRICTED VISIBILITY

RESPONSIBILITY	0000 - 0400 & 1200 - 1600	0400-0800 & 1600- 2000	0800 – 1200 & 2000 - 2400
Master should be present on bridge in case of high traffic density or any other time deemed necessary by him.			
OOW	SECOND OFFICER	CHIEF OFFICER	THIRD OFFICER
Lookout	OS	OS / BOSUN	BOSUN
Helmsman (If required)	AB-1 ERWIN	AB-2 TAMMY	AB-3 DANILO

NOTE:

1. Master should be notified if visibility deteriorates below 5 nautical miles or greater distance at Master's discretion.
2. Helmsman should be posted in addition to lookout if considered necessary.

3. ARRIVAL/ DEPARTURE PORTS, and/ or IN CONGESTED WATERS

RESPONSIBILITY	0000 - 0400 & 1200 - 1600	0400-0800 & 1600- 2000	0800 – 1200 & 2000 - 2400
Master should be present on bridge during the time of arrival/ departure port.			
OOW	SECOND OFFICER	CHIEF OFFICER	THIRD OFFICER
Helmsman	AB-1 ERWIN	AB-2 TAMMY	AB-3 DANILO
Lookout	OS	OS / BOSUN	BOSUN

4. PILOTAGE WATERS

RESPONSIBILITY	0000 - 0400 & 1200 - 1600	0400-0800 & 1600- 2000	0800 – 1200 & 2000 - 2400
Master should be present on bridge during the pilotage.			
OOW	SECOND OFFICER	CHIEF OFFICER	THIRD OFFICER
Helmsman	AB-1 ERWIN	AB-2 TAMMY	AB-3 DANILO
Lookout	OS	OS / BOSUN	BOSUN

Note: Under prolonged pilotage or similar circumstances, or if he is tired, the Master may at his discretion, be relieved by the Chief Officer.

5. HIGHEST LEVEL OF BRIDGE MANNING (AT MASTER'S DISCRETION)

RESPONSIBILITY	0000 - 0400 & 1200 - 1600	0400-0800 & 1600- 2000	0800 – 1200 & 2000 - 2400
Master should be present on bridge during this Manning Level.			
OOW	SECOND OFFICER	CHIEF OFFICER	THIRD OFFICER
Additional Officer			
Helmsman	AB-1 ERWIN	AB-2 TAMMY	AB-3 DANILO
Lookout	OS	OS / BOSUN	BOSUN

Note: Some examples of the situations requiring the Highest level of Bridge Manning are Arrival / Departure Ports, Congested Waters, Heavy Traffic, Restricted Visibility, Malfunction of Navigation Equipments etc.

**Section 8: ISPS requirements**M.V./M.T.: HAKO Voyage No: 02ARRIVAL PORT/ COUNTRY VANCOUVER, CANADABERTH NAME /NUMBER: BUNKERING ANCHORAGESECURITY LEVEL IN PORT 1SECURITY LEVEL OF THE VESSEL 1

ANY ADDITIONAL MEASURES TO BE TAKEN DUE TO SECURITY ALERTS :

N/A**AT SEA**1. is the vessel expected to pass through Piracy prone area ? 2. Is the SSAS in good working order ? Date of last testing of SSAS: 22 June 20143. Are all security equipment in good working order ?
(AIS / Torches / Night vision binoculars /Additional lights/ Radar etc)4. Have Anti Piracy watches been planned and relevant duties explained to staff on board ?

5. Give brief description of areas which require high vigilance :

N/A



Section 9: Environmental requirements

M.V/M.T

HAKO

Voyage No:

02

(Reminder: Master to get latest local regulations from agents well in advance in order to comply fully with all local regulations well in time)

1) Is the vessel expected to transit Particular sensitive Sea Areas (PSSA)

No

Area

Not applicable

a. Point at which master is to be called marked on chart

Not Applicable

b. All overboard v/v to be sealed and locked so as to prevent any grey water overboard ?

Not Applicable

c. Have all concerned personnel been informed that "No deballasting operations to be carried out"

Not Applicable

d. Have all concerned personnel been informed that No deck washing or Hatch cover testing to be carried out while at anchorage / berth?

Not Applicable

2) Is the vessel expected to enter Marpol Annex 1 special areas enroute ?

Not Applicable

Sr. No.	MARPOL ANNEX 1 AREAS	DATE / TIME OF ENTRY
1	Not applicable	
2		
3		
4		
5		
6		

3) Is the vessel expected to enter Marpol Annex 5 special areas enroute ?

Not Applicable

Sr. No.	MARPOL ANNEX V AREAS	DATE/ TIME OF ENTRY
1	Not applicable	
2		
3		
4		
5		
6		

4) Is the vessel expected to enter SECA/ECA area, if yes please advise if vessel complies with SECA/ECA plan (QMS 90A).

Yes

Sr. No.	SECA/ECA AREAS	DATE / TIME OF ENTRY
1	Areas covered by ECA	Entire voyage will be in ECA area only.
2		Presently vessel is in ECA area
3		
4		

5) Does the vessel have sufficient LSFO for its entire duration of stay in the SECA/ECA areas?

No



Section 9: Environmental requirements

M.V/M.T	HAKO	Voyage No:	02
6) Does the vessel have sufficient MGO to comply with the EU Directive?		Not Applicable	
7) If calling California, Does the vessel have sufficient MGO to comply with the local regulations?		Not Applicable	
<small>(When the vessel arrives within 24 nautical miles of California coast, the vessel will be required to use in their Main Engine/ Auxiliary engines/ boilers, Marine gas oil(MGO) with a 0.1% sulphur cap and Marine diesel oil (MDO) with a 0.1% sulphur cap.)</small>			
8) Is Ballast water exchange required to be carried out ?		Not Applicable	
9) Has the vessel been supplied with refractometer and same working in order?		Yes	
10) On Bulk carriers and General cargo vessels, has the disposal of Cargo residues been recorded in Garbage Record Book.		Not Applicable	
		Date of Last entry:	
		Not Applicable	
11) Is the vessel calling any port with special sewage or grey water regulations in force ?		No	
12) If trading on US East Coast (Southeastern Atlantic and mid-Atlantic US waters), are speed restrictions to protect endangered right whales maintained and marked on respective Charts?		Not Applicable	
<small>(The 10-knot speed restriction will extend out to 20 nautical miles around major mid-Atlantic ports each year in the following approximate locations at the following times.)</small>			
Area	Not applicable		

Chief Officer

Chief Engineer



Section 10: Contingencies

M.V./M.T.: HAKO

Voyage No:

02

1. Tug Failure

Master shall inform forward & aft station in order to deal with any emergencies
Vessel should rig fenders to minimize the contact damage.

2. Please refer to Emergency Procedure Manual Section 4 for following Emergencies :

Fire / Main Engine Failure / Casualty / Terrorism / Gyro Failure / Steering gear failure / Oil / Cargo Spill ETC

3. Incapacity of Pilot

Master shall take over the Con of the vessel
Master shall notify Pilot Station and Tugs if applicable
Master should proceed to safe contingency anchorage
Master should notify all vessel in the vicinity
Crew should be standby forward station along with C/O for possible anchoring

4. Port Of Refuge

List out possible 'Port of Refuge'.

Port of refuge should be a port where necessary assistance can be provided to the vessel immediately for example assistance for Machinery repairs, Medical Assistance, and possibility of discharging cargo for further transshipment)

1 VICTORIA

2

3

4

5

5 General Precautions for the Voyage :

SHARP LOOKOUT AT ALL TIMES AS VESSEL SAILING IN EXPECTED HEAVY TRAFFIC AND IN THE EXPECTED PRESENCE OF PLEASURE CRAFTS AND FISHING BOATS.

[illegible]

Note: Increase in draft forward or aft due to squat effect could be more than mean draft increase. Squat is likely to result in an increase in forward draft if the block coefficient is > 0.7 and increase in aft draft if the block coefficient is < 0.7 .

_____ - A longer route should always be accepted in preference to shorter more hazardous route.

[illegible]

Note: Increase in draft forward or aft due to squat effect could be more than mean draft increase. Squat is likely to result in an increase in forward draft if the block coefficient is > 0.7 and increase in aft draft if the block coefficient is < 0.7 .

Section 13A: Arrival Port - Passage from Pilot Station to Berth

M.V. HAKO

Voyage No.

02

WP	Name/ Reference	Latitude		Longitude		T/CO	DIST	DTG	Position Plotting Interval	METHOD OF POSITION FIXING		Deepest Draft	Expected Height of Tide	Intended transit Speed	Squat	Min. Charted Depth	UKC
		Deg	Min	Deg	Min	'E/W				Primary method	Secondary method						
19	VICTORIA P/STN	48°	22.000'	N	123°	23.100'	W		5 mins or less	Visual/Radar	GPS	11.82	1.60	6		95	84.78
20	STAINES POINT	48°	22.000'	N	123°	18.000'	W	090.0	10 mins or less	Visual/Radar	GPS	11.82	1.80	12.5	1.35	95	83.63
21	SEA BIRD POINT	48°	24.500'	N	123°	10.500'	W	063.4	10 mins or less	Visual/Radar	GPS	11.82	1.80	12.5	1.35	64	52.63
22	BEAUMONT SH	48°	27.000'	N	123°	09.700'	W	012.0	10 mins or less	Visual/Radar	GPS	11.82	2.00	12.5	1.35	126	114.83
23	KELP REEFS	48°	33.000'	N	123°	12.000'	W	345.7	10 mins or less	Visual/Radar	GPS	11.82	2.00	12.5	1.35	247	235.83
24	TOM PT.	48°	40.000'	N	123°	15.000'	W	344.1	10 mins or less	Visual/Radar	GPS	11.82	2.00	12.5	1.35	315	303.83
25	TURN PT.	48°	41.500'	N	123°	15.000'	W	360.0	10 mins or less	Visual/Radar	GPS	11.82	2.00	12.5	1.35	144	132.83
26	EAST PT.	48°	45.700'	N	123°	02.000'	W	064.0	10 mins or less	Visual/Radar	GPS	11.82	2.20	12.5	1.35	245	234.03
27	PUGET SOUND TSS	48°	49.300'	N	122°	58.000'	W	036.3	10 mins or less	Visual/Radar	GPS	11.82	2.20	12.5	1.35	201	190.03
28	PUGET SOUND TSS	48°	54.500'	N	123°	04.500'	W	320.5	10 mins or less	Visual/Radar	GPS	11.82	2.20	12.5	1.35	120	109.03
29	ROBERTS BANK	49°	04.500'	N	123°	21.000'	W	312.6	10 mins or less	Visual/Radar	GPS	11.82	2.60	12.5	1.35	150	139.43
30	STURGEON BANK	49°	14.600'	N	123°	19.000'	W	007.4	10 mins or less	Visual/Radar	GPS	11.82	2.60	12.5	1.35	131	120.43
31	PT. GREY	49°	17.000'	N	123°	18.000'	W	015.3	5 mins or less	Visual/Radar	GPS	11.82	2.80	12.5	1.35	60	49.63
32	PT. ATKENSON	49°	18.300'	N	123°	16.000'	W	045.2	5 mins or less	Visual/Radar	GPS	11.82	2.80	12	1.24	100	89.74
33	NAVY JACK PT.	49°	19.200'	N	123°	10.000'	W	077.1	5 mins or less	Visual/Radar	GPS	11.82	2.80	12	2.48	28	16.50
34	LIONS GATE BRIDGE	49°	19.000'	N	123°	08.500'	W	101.5	5 mins or less	Visual/Radar	GPS	11.82	2.80	10	1.72	22.5	11.76
35	BURNABY SHOAL	49°	18.080'	N	123°	06.500'	W	125.1	5 mins or less	Visual/Radar	GPS	11.82	2.80	10	1.72	30	19.26
36	VANCOUVER HR	49°	18.000'	N	123°	05.000'	W	094.7	5 mins or less	Visual/Radar	GPS	11.82	2.80	10	1.72	33	22.26
37	VANCOUVER HR	49°	18.000'	N	123°	04.000'	W	090.0	5 mins or less	Visual/Radar	GPS	11.82	2.80	6	0.62	19.5	9.86
38	BERTH	49°	18.270'	N	123°	03.520'	W	049.3	5 mins or less	Visual/Radar	GPS	11.82	2.80	0		16.1	7.08

Note: Increase in draft forward or aft due to squat effect could be more than mean draft increase. Squat is likely to result in an increase in forward draft if the block coefficient is > 0.7 and increase in aft draft if the block coefficient is < 0.7.

[illegible]

Note: Increase in draft forward or aft due to squat effect could be more than mean draft increase. Squat is likely to result in an increase in forward draft if the block coefficient is > 0.7 and increase in aft draft if the block coefficient is < 0.7 .

Voyage No. 02

HAKO

02

[illegible]

Note: Increase in draft forward or aft due to squat effect could be more than mean draft increase. Squat is likely to result in an increase in forward draft if the block coefficient is > 0.7 and increase in aft draft if the block coefficient is < 0.7 .



Section 14 A. Instructions for filling UKC Calculation Form

M.V/M.T HAKO

Voyage No: 02

- 1 The vessels name must be filled in the GENERAL INFORMATION page.
- 2 Go to the UKC Calculation sheet and fill in ONLY the blue shaded cells. Fill in data in ALL the blue cells
- 3 For Hog, put negative value
- 4 Fill in the correct block coefficient for the corrected mean draft.
- 5 The intended transit speed should normally be the maximum maneuvering speed
- 6 When entering controlling depth data , put negative sign in case the height of tide sea and swell is negative.
- 7 Remember to correctly choose "Yes" or "No" for whether vessel is in confined waters.

Fleet Management Limited					
Section 14 B. UKC CALCULATION (Departure Port)					
VESSEL	HAKO		DATE	15-Jul-14	
PORT/ AREA	PRINCE RUPERT		LOCAL TIME	1600 LT	
Deepest Navigational Draft Calculation (Meter)			Controlling Depth Calculation		
DRAFTS	FORWARD		11.83	Select Unit for entering values in below column	Meter
	AFT		11.83	CHARTED DEPTH	13.90
	a)	MIDSHIPS (P)	11.83	EFFECT OF TIDE (+ / -)	3.55
	b)	MIDSHIPS (S)	11.83	EFFECT OF SEA (-)	0.00
Density used for computing above drafts			1.020	EFFECT OF SWELL (-)	0.00
c)	HOG / SAG ALLOWANCE		0.00	ACTUAL CONTROLLING DEPTH (ii)	17.45
d)	INCREASE IN DRAFT DUE TO LIST (+)		0.00		
CORRECTED MEAN DRAFT(a+b)/2+c+d			11.83	UNDER-KEEL CLEARANCE in Meters	2.93
MAXIMUM DRAFT			11.83	UNDER-KEEL CLEARANCE in Feet	9.62
Block Coefficient for Corrected Mean draft			0.86		
INCREASE DUE TO SQUAT (+)			2.69		
DEEPEST NAVIGATIONAL DRAFT (i)			14.52	IS VESSEL IN CONFINED WATERS?	YES
INTENDED TRANSIT SPEED (KTS)			12.50		

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Section 14 C. UKC CALCULATION (Arrival Port)

VESSEL	HAKO	DATE	17-Jul-14
PORT/ AREA	VANCOUVER	LOCAL TIME	1600 ET
Deepest Navigational Draft Calculation (Meter)		Controlling Depth Calculation	
DRAFTS	FORWARD	11.82	Select Unit for entering values in below column Meter
	AFT	11.82	CHARTED DEPTH
	a) MIDSHIPS (P)	11.82	EFFECT OF TIDE (+ / -)
	b) MIDSHIPS (S)	11.82	EFFECT OF SEA (-)
Density used for computing above drafts		1.025	EFFECT OF SWELL (-)
c)	HOG / SAG ALLOWANCE	0.00	ACTUAL CONTROLLING DEPTH (ii)
d)	INCREASE IN DRAFT DUE TO LIST (+)	0.00	
CORRECTED MEAN DRAFT(a+b)/2+c+d		11.82	UNDER-KEEL CLEARANCE in Meters
MAXIMUM DRAFT		11.82	UNDER-KEEL CLEARANCE in Feet
Block Coefficient for Corrected Mean draft		0.86	
INCREASE DUE TO SQUAT (+)		2.69	
DEEPEST NAVIGATIONAL DRAFT (i)		14.51	IS VESSEL IN CONFINED WATERS?
INTENDED TRANSIT SPEED (KTS)		12.50	



SQUAT CALCULATION

VESSEL HAKO
BLOCK COEFFICIENT 0.860

Note: Increase in draft forward or aft due to squat effect could be more than mean draft increase. Squat is likely to result in an increase in forward draft if the block coefficient is > 0.7 and increase in aft draft if the block coefficient is < 0.7

OPEN WATERS		CONFINED WATERS	
SPEED	SQUAT	SPEED	SQUAT
knots	meters	knots	meters
3	0.08	3	0.15
4	0.14	4	0.28
5	0.22	5	0.43
6	0.31	6	0.62
7	0.42	7	0.84
8	0.55	8	1.10
9	0.70	9	1.39
10	0.86	10	1.72
11	1.04	11	2.08
12	1.24	12	2.48
13	1.45	13	2.91
14	1.69	14	3.37
15	1.94	15	3.87
16	2.20	16	4.40
17	2.49	17	4.97
18	2.79	18	5.57
19	3.10	19	6.21
20	3.44	20	6.88
21	3.79	21	7.59
22	4.16	22	8.32
23	4.55	23	9.10
24	4.95	24	9.91
25	5.38	25	10.75



Section 15: Master's review of passage plan

M.V/M.T	<u>HAKO</u>	Voyage No:	<u>02</u>
Dep Port:	<u>PRINCE RUPERT</u>	Arr. Port:	<u>VANCOUVER</u>

Section - 1 General information

Has all relevant information filled up in the Set up Page ?

YES	NO	N/A
✓		

Section - 2 Nautical Charts

Are all charts on board for the passage and are the largest scale charts in use ?

✓		
---	--	--

Has all relevant information including below been filled in for each chart being used?

Areas where speed reduction is required.

✓		
---	--	--

Areas where two steering motors are required to be switched ON

✓		
---	--	--

Areas where echo sounder should be activated

✓		
---	--	--

Crossing and high density traffic areas

✓		
---	--	--

Call Points' for Master

✓		
---	--	--

Notices to Engine Room

✓		
---	--	--

Manning of Engine Room (UMS Vessels)

		✓
--	--	---

Has a proper 'Abort Point' been marked ? Indicate position: X46-21.00, 123-23.41

✓		
---	--	--

Has the 'Shallow Water Effect' and 'Banking Effect' been considered ?

✓		
---	--	--

Voyage Charts corrected to NTM no. 22/2014

Has the designated Pilot Boarding Ground been assessed and found suitable for the manoeuvring characteristics of the vessel ?

✓		
---	--	--

If NO, has an alternate location been identified? Indicate posn: _____

		✓
--	--	---

Section - 3 Publications

Have all required Publications been identified and relevant information filled in section 3 ? Voyage Publications corrected to NTM no. 22/2014

✓		
---	--	--

Has relevant information been extracted from required publications ?

✓		
---	--	--

Section - 4 Tides & current

Has all relevant information regarding tides & current filled in section 4 ?

✓		
---	--	--

Section - 5 Weather conditions

Has the advice from Weather routing agencies been applied ?

✓		
---	--	--

Section - 6 Reporting details

Has all relevant reporting requirements as listed in section 6 kept ready for use ?

✓		
---	--	--

Vessels calling/ Departing US ports, duly signed copies of completed passage will be send to office on email ID fleet-ccmnav@fleetship.com ?

✓		
---	--	--

Section - 7 Bridge team management

Has watch schedule/ manning requirements as per Bridge Team Management discussed with all Navigating officers and Understood ?

✓		
---	--	--

Section - 8 ISPS requirements

Has the ISPS Section fully filled in and required precautions taken ?

✓		
---	--	--

Section - 9 Environment requirements

Have all relevant answers been filled up regarding environmental aspect during the voyage ?

✓		
---	--	--

Section - 10 Contingencies

Have all contingencies measures been discussed with the bridge team ?

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section - 11 Departure port- Waypoints

Has the Departure port way point list filled in ?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

What is the Minimum expected UKC

8.05

Are any navigation risk assessments required to be carried out during this leg ?

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	-------------------------------------

(Note: Refer to BPM Section 3.2.3.1 for further details).

Section - 12 Sea passage- Waypoints

Has the Sea passage way point list filled in ?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

Has a longer route been taken in preference to shorter more hazardous route ?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

Section - 13 Arrival port- Waypoints

Has the arrival port way point list filled in ?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

What is the Minimum expected UKC

8.98

Are any navigation risk assessments required to be carried out during this leg ?

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	-------------------------------------

(Note: Refer to BPM Section 3.2.3.1 for further details).

Section - 14 UKC calculation

Is UKC calculated as per bridge procedure manual Annex 7 ?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

Signature *[Signature]*Master's Name *MAST. L.K. MISHRA*

Date _____

Time _____

We undersigned hereby confirm understanding & compliance with above passage plan

Name	Rank	Date/Time	Signature
<i>VISHAL V. MAZARETH</i>	Chief officer		<i>AL</i>
<i>EDWARD F. HINDY JR.</i>	Second officer		<i>[Signature]</i>
	Third officer		<i>[Signature]</i>

Note: Any last minute minor deviations made by the Master before pilot boarding to the intended passage plan, particularly with regards to pilotage and near shore waters should be discussed with duty officer and such details are to be recorded in this section.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

Date: _____

1. Name: _____ ; Rank: _____ ; Signature: _____

2. Name: _____ ; Rank: _____ ; Signature: _____

3. Name: _____ ; Rank: _____ ; Signature: _____

4. Name: _____ ; Rank: _____ ; Signature: _____

Section 17: Post Voyage De-Brief of Passage Plan

M.V/M.T

HAKO

Voyage No:

02

After completion of a passage, the master should take the opportunity to discuss the planning and execution of the passage with his team members. Possible weaknesses should be openly admitted and discussed so that they may be corrected or allowed for in future passages.

Such a de brief need not take long, and can take place during the passage whilst the memory is still fresh in people's minds. Where corrections are made to a planned passage they can be saved for future use.

YES	NO	N/A

1. Were charts and publications suitable for the voyage ?

Remarks (if any):

2. Was the bridge team composition adequate or were any changes required ?

Remarks (if any):

3. Were any amendments required to the departure port information (Section 11) ?

Remarks (if any):

4. Were any amendments required to the arrival port information (Section 13A) ?

Remarks (if any):

5. a) Was the UKC experienced during the passage as calculated in the passage plan ?

b) Was there a significant difference between the UKC at the berth(s) and the expected UKC as per calculation ? UKC at berth(s) : _____ UKC as per calculation : _____

Remarks (if any):

6. Was the position fixing interval stated in the passage plan adequate/ difficult to comply with ?

Remarks (if any):

7. List 'Note worthy efforts' (for example by members of the bridge team, during the various stages of the plan etc.)

8. List the scope for improvement in future passage plans:

Master _____

Ch/ Off _____

2/ Off _____

3/ Off _____

Addnl Off _____

Date _____

Sign _____

Sign _____

Sign _____

Sign _____

Sign _____

Time _____